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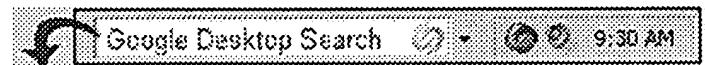
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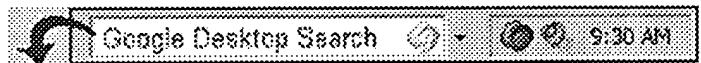
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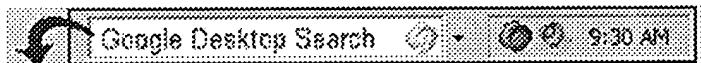
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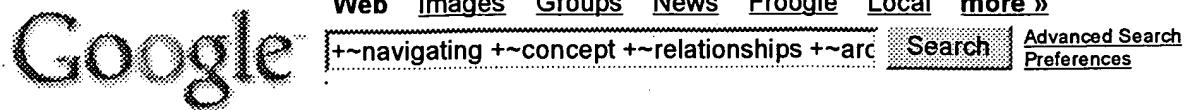
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graph whose nodes and **arcs** represent classes of objects and **relationships** of the ...

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rected **arcs** [29]. **Concept**-types, **concepts** and conceptual **relations** ... In essence,

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... composition and synchronisation **arcs**. Yet another interesting **concept** ...

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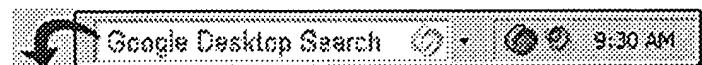
another **concept**. These **arcs** have correlation in basic set theory: is-a is like the

... **concepts and relations** are essential. Because many ontology models ...

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... The main **idea** of moment invariants is to use region ... depicting and conveying a high-level **concept** or story ... cannot be easily mapped into semantic **concepts**, such ...

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tools for **navigating** the various kinds of information found in the. user's corpus.

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These **concepts** include sets, **relations**, functions, sequences, tuples, ...  $Q \times$

$C \rightarrow R$  be a **matching** function, defined by an index  $I$ , that ...

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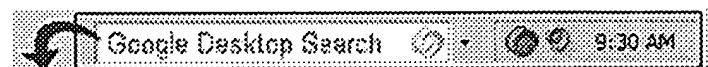
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**1** [Streams, structures, spaces, scenarios, societies \(5s\): A formal model for digital libraries](#)


Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2Full text available: [pdf\(316.85 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

**Keywords:** applications., definitions, foundations, taxonomy

**2** [Contexts—a partitioning concept for hypertext](#)


Norman M. Delisle, Mayer D. Schwartz

April 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 2Full text available: [pdf\(1.49 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Hypertext systems provide good information management support for a wide variety of documentation efforts. These efforts range from developing software to writing a book. However, existing hypertext systems provide poor support for collaboration among teams of authors. This paper starts by briefly describing properties of several existing hypertext systems. Then several models for forming partitions in a hypertext database are examined and contexts, a partitioning scheme that supports multi ...

**3** [Accepted Posters: Sticky notes for the semantic web](#)


David R. Karger, Boris Katz, Jimmy Lin, Dennis Quan

January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**Full text available: [pdf\(240.05 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer-based annotation is increasing in popularity as a mechanism for revising documents and sharing comments over the Internet. One reason behind this surge is that viewpoints, summaries, and notes written by others are often helpful to readers. In particular, these types of annotations can help users locate or recall relevant documents. We believe that this model can be applied to the problem of retrieval on the Semantic Web. In this paper, we propose a generalized annotation environment th ...

**Keywords:** RDF, annotation, natural language, question answering, semantic web, user interface

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- 1 [6,909,708](#) **System, method and article of manufacture for a communication system architecture including video conferencing**
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- 6 [6,754,181](#) **System and method for a directory service supporting a hybrid communication system architecture**
- 7 [6,742,015](#) **Base services patterns in a netcentric environment**
- 8 [6,731,625](#) **System, method and article of manufacture for a call back architecture in a hybrid network with support for internet telephony**
- 9 [6,727,927](#) **System, method and article of manufacture for a user interface for a knowledge management tool**
- 10 [6,721,726](#) **Knowledge management tool**
- 11 [6,715,145](#) **Processing pipeline in a base services pattern environment**
- 12 [6,671,693](#) **System for effectively collecting and disseminating data**
- 13 [6,671,692](#) **System for facilitating the navigation of data**
- 14 [6,664,980](#) **Visual navigation utilizing web technology**
- 15 [6,654,029](#) **Data-base independent, scalable, object-oriented architecture and API for managing digital multimedia assets**

16 [6,640,249](#) **T** Presentation services patterns in a netcentric environment

17 [6,640,244](#) **T** Request batcher in a transaction services patterns environment

18 [6,640,238](#) **T** Activity component in a presentation services patterns environment

19 [6,640,145](#) **T** Media recording device with packet data interface

20 [6,636,242](#) **T** View configurer in a presentation services patterns environment

21 [6,615,253](#) **T** Efficient server side data retrieval for execution of client side applications

22 [6,615,204](#) **T** Method and system for hybrid mapping of objects into a relational data base to provide high-speed performance and update flexibility

23 [6,615,199](#) **T** Abstraction factory in a base services pattern environment

24 [6,606,660](#) **T** Stream-based communication in a communication services patterns environment

25 [6,601,234](#) **T** Attribute dictionary in a business logic services environment

26 [6,601,192](#) **T** Assertion component in environment services patterns

27 [6,581,039](#) **T** Report searching in a merger and acquisition environment

28 [6,578,068](#) **T** Load balancer in environment services patterns

29 [6,571,285](#) **T** Providing an integrated service assurance environment for a network

30 [6,571,282](#) **T** Block-based communication in a communication services patterns environment

31 [6,571,235](#) **T** System for providing an interface for accessing data in a discussion database

32 [6,564,209](#) **T** Knowledge management tool for providing abstracts of information

33 [6,550,057](#) **T** Piecemeal retrieval in an information services patterns environment

34 [6,549,949](#) **T** Fixed format stream in a communication services patterns environment

35 [6,539,396](#) **T** Multi-object identifier system and method for information service pattern environment

36 [6,529,948](#) **T** Multi-object fetch component

37 [6,529,909](#) **T** Method for translating an object attribute converter in an information services patterns environment

38 [6,502,213](#) **T** System, method, and article of manufacture for a polymorphic exception handler in environment services patterns

39 [6,496,850](#) **T** Clean-up of orphaned server contexts

40 [6,477,665](#) **T** System, method, and article of manufacture for environment services patterns in a netcentric environment

41 [6,477,580](#) **T** Self-described stream in a communication services patterns environment

42 [6,446,076](#) **T** Voice interactive web-based agent system responsive to a user location for prioritizing and formatting information

43 [6,442,748](#) **T** System, method and article of manufacture for a persistent state and persistent object separator in an information services patterns environment

44 [6,438,594](#) **T** Delivering service to a client via a locally addressable interface

45 [6,434,628](#) **T** Common interface for handling exception interface name with additional prefix and suffix for handling exceptions in environment services patterns

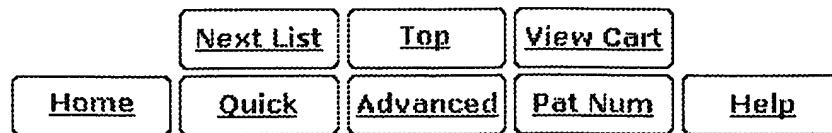
46 [6,434,568](#) **T** Information services patterns in a netcentric environment

47 [6,400,996](#) **T** Adaptive pattern recognition based control system and method

48 [6,339,832](#) **T** Exception response table in environment services patterns

49 [6,335,927](#) **T** System and method for providing requested quality of service in a hybrid network

50 [6,332,163](#) **T** Method for providing communication services over a computer network system



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- 1 [6,922,699](#) **System and method for quantitatively representing data objects in vector space**
- 2 [6,920,608](#) **Chart view for reusable data markup language**
- 3 [6,909,708](#) **System, method and article of manufacture for a communication system architecture including video conferencing**
- 4 [6,900,807](#) **System for generating charts in a knowledge management tool**
- 5 [6,892,196](#) **System, method and article of manufacture for a user programmable diary interface link**
- 6 [6,874,123](#) **Three-dimensional model to facilitate user comprehension and management of information**
- 7 [6,868,525](#) **Computer graphic display visualization system and method**
- 8 [6,850,252](#) **Intelligent electronic appliance system and method**
- 9 [6,845,370](#) **Advanced information gathering for targeted activities**
- 10 [6,842,906](#) **System and method for a refreshable proxy pool in a communication services patterns environment**
- 11 [6,840,442](#) **System and method for inputting, retrieving organizing and analyzing data**
- 12 [6,772,216](#) **Interaction protocol for managing cross company processes among network-distributed applications**
- 13 [6,772,148](#) **Classification of information sources using graphic structures**
- 14 [6,772,139](#) **Method and apparatus for facilitating use of hypertext links on the world wide web**
- 15 [6,754,181](#) **System and method for a directory service supporting a hybrid communication system architecture**
- 16 [6,742,015](#) **Base services patterns in a netcentric environment**

17 6,731,625 **T** System, method and article of manufacture for a call back architecture in a hybrid network with support for internet telephony

18 6,728,752 **T** System and method for information browsing using multi-modal features

19 6,727,927 **T** System, method and article of manufacture for a user interface for a knowledge management tool

20 6,721,726 **T** Knowledge management tool

21 6,715,145 **T** Processing pipeline in a base services pattern environment

22 6,708,184 **T** Method and apparatus for producing and accessing composite data using a device having a distributed communication controller interface

23 6,708,172 **T** Community-based shared multiple browser environment

24 RE38,432 **T** Computer-aided group-learning methods and systems

25 6,687,876 **T** Method and system for maintaining freeform ink annotations on changing views

26 6,681,223 **T** System and method of performing profile matching with a structured document

27 6,671,693 **T** System for effectively collecting and disseminating data

28 6,671,692 **T** System for facilitating the navigation of data

29 6,664,980 **T** Visual navigation utilizing web technology

30 6,654,029 **T** Data-base independent, scalable, object-oriented architecture and API for managing digital multimedia assets

31 6,647,381 **T** Method of defining and utilizing logical domains to partition and to reorganize physical domains

32 6,640,249 **T** Presentation services patterns in a netcentric environment

33 6,640,244 **T** Request batcher in a transaction services patterns environment

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39 6,615,199 **T** Abstraction factory in a base services pattern environment

40 6,607,136 **T** Physical presence digital authentication system

41 6,606,660 **T** Stream-based communication in a communication services patterns environment

42 6,601,234 **T** Attribute dictionary in a business logic services environment

43 6,601,192 **T** Assertion component in environment services patterns

44 6,598,054 **T** System and method for clustering data objects in a collection

45 6,598,043 **T** Classification of information sources using graph structures

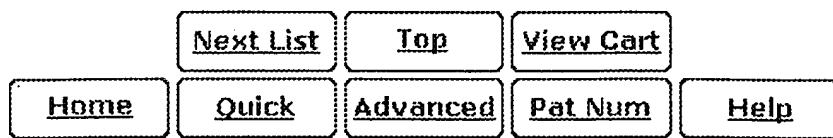
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